

Catechin Profiles in *C. barkleyi* -no treatment

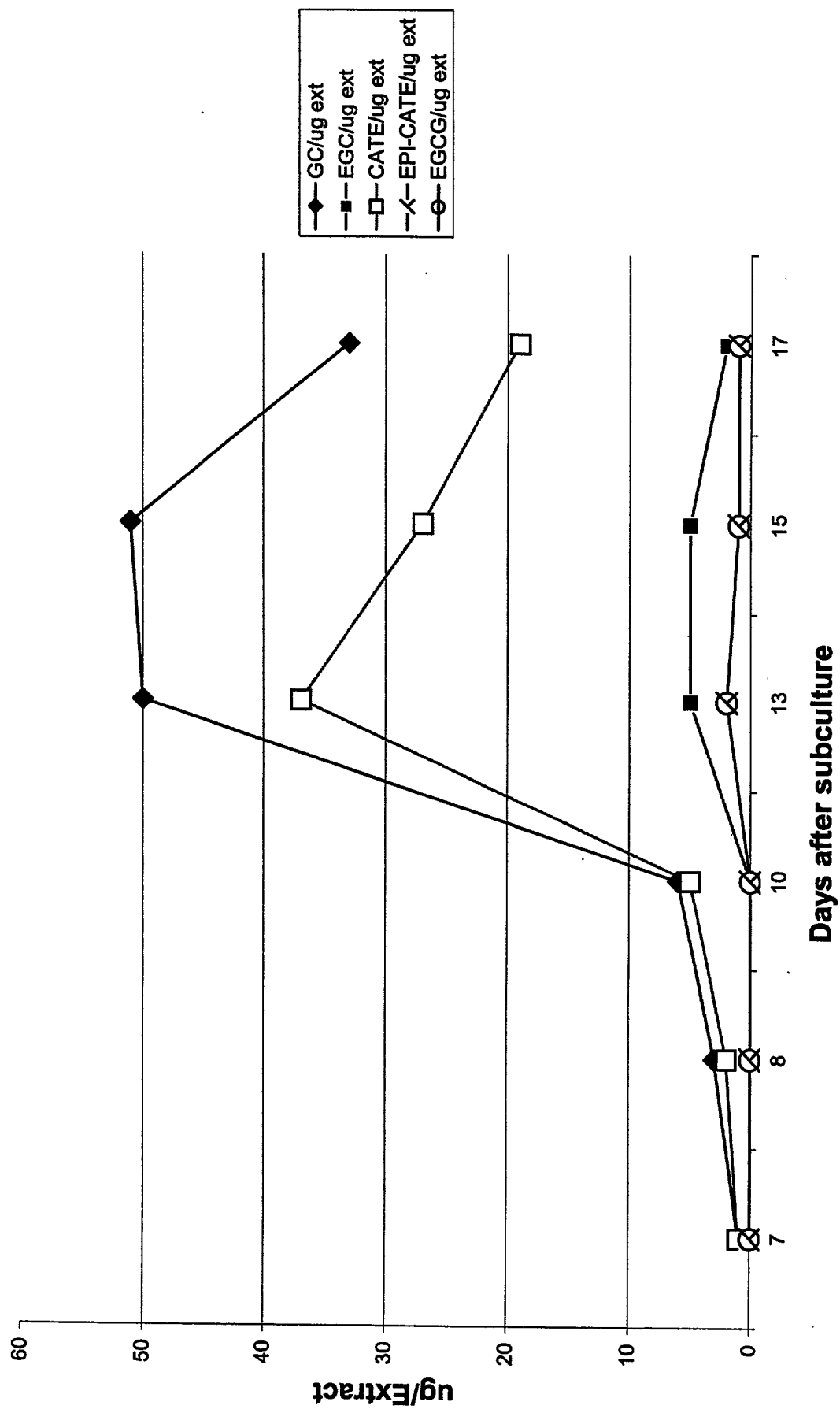


FIG. 1

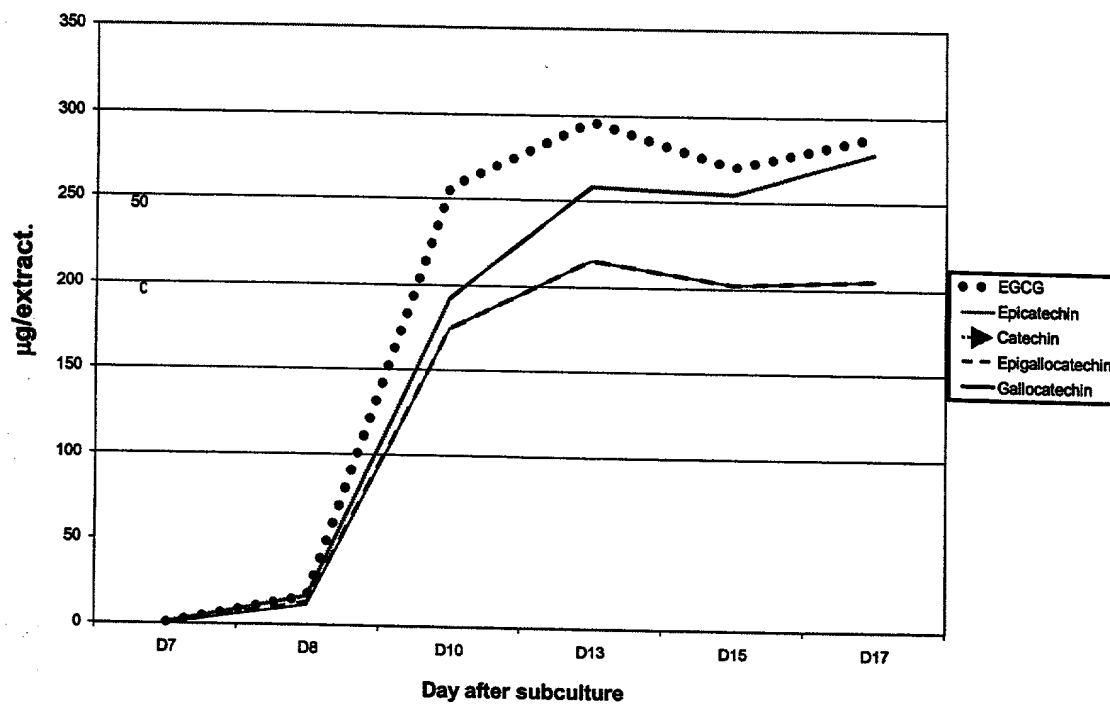


FIG. 2

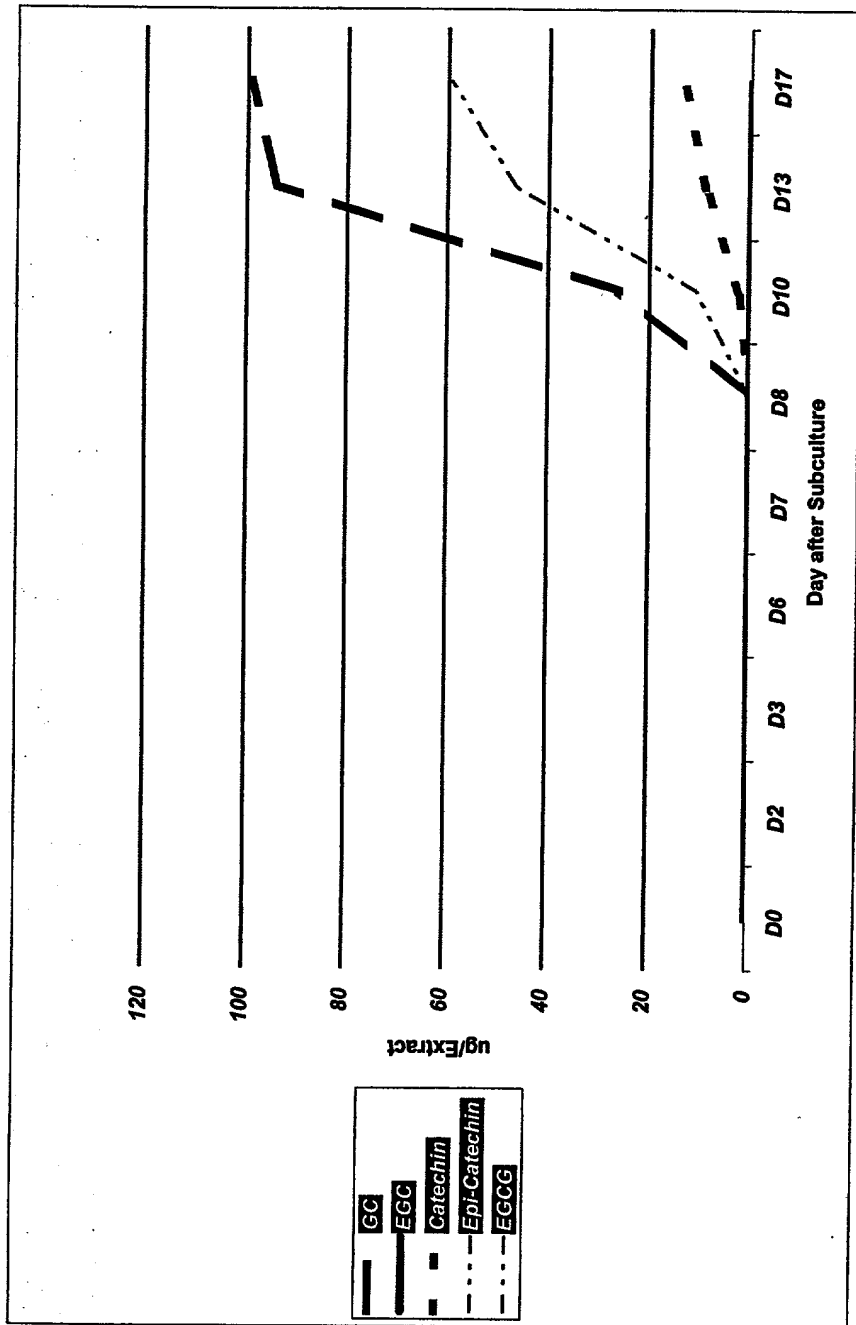


FIG. 3

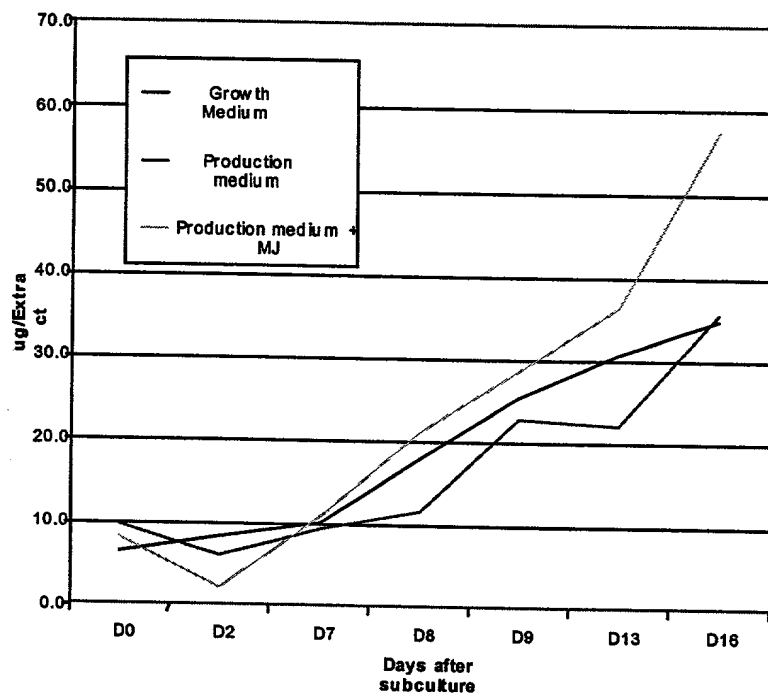


FIG. 4

SEQ ID NO: 1
SEQ ID NO: 2

```
S   V   N   D   N   P   L   I   D   V   S   R
TCT GTC AAC GAC AAC CCG TTG ATC GAT GTC TCG AGG

N   K   A   I   H   G   G   N   F   Q   G   T
AAC AAG GCC ATC CAT GGT GGA AAC TTC CAA GGA ACC

P   I   G   V   S   M   D   N   T   R   L   A
CCG ATC GGT GTG TCC ATG GAC AAC ACC AGG CTA GCA

L   A   A   I   G   K   L   M   F   A   Q   F
CTG GCA GCT ATT GGG AAG CTC ATG TTT GCT CAG TTC

S   E   L   V   N   D   F   Y   N   N   G   L
TCC GAG CTT GTC AAT GAC TTC TAC AAC AAT GGT CTG

P   S   N   L   S   G   S   R   N   P   S   L
CCA TCG AAT CTG TCT GGC AGC AGG AAC CCC AGC TTG

D   Y   G   L   K   G   A   E   I   A   M   A
GAC TAT GGG CTT AAA GGA GCG GAG ATC GCA ATG GCT

S   Y   C   S   E   L   Q   F   L   G   N   P
TCC TAC TGT TCC GAR CTT CAG TTC CTT GGT AAC CCG

V   T   N   H   V   Q   S   A   E   Q   H   N
GTT ACT AAC CAT GTC CAG AGC GCT GAG CAG CAT AAC

Q   D   V   N   S   L   G   L   I   S   S   R
CAG GAT GTC AAC TCA TTG GGA TTG ATC TCA TCA AGG

K   T   A   E   A   V   D   I   L   K   L   M
AAG ACA GCT GAA GCT GTT GAC ATC TTG AAG CTC ATG

T   S   T   Y   L   V   A   L   C   Q   A   V
ACA TCG ACT TAC TTG GTG GCC CTT TGC CAA GCT GTT

D   L   R   H   M   E   E   N   L   R   N   T
GAC CTG AGG CAC ATG GAA GAG AAT CTT AGG AAC ACT

V   K   N   T   V   S   Q   V   A   K   R   T
GTG AAG AAC ACC GTG AGC CAA GTC GCC AAG AGG ACG

L   T   T   G   A   N   G   E   L   H   P   S
CTC ACM ACA GGA GCC AAC GGT GAG CTT CAC CCA TCG

R   F   C   E   K   D   L   L   K   V   V   D
AGA TTC TGC GAG AAG GAC TTG CTC AAA GTR GTT GAC

R   E   Y   V   F   A   Y   I   D   D   P   C
AGA GAG TAT GTG TTC GCG TAC ATT GAT GAC CCC TGC

L   A   T   Y   P   L   M   Q   S   L   G   A
CTG GCA ACT TAC CCT CTG ATG CAA AGC TTA GGG GCT
```

Fig. 5A

204270 6249500T

SEQ ID NO: 3
SEQ ID NO: 4

E	N	N	K	G	A	R	V	L	V	I	C
GAG	AAC	AAC	AAG	GGC	GCT	CGC	GTG	TTG	GTG	ATT	TGC
S	E	I	T	A	V	T	F	R	G	P	S
TCT	GAG	ATC	ACT	GCT	GTT	ACC	TTC	CGT	GGC	CCA	AGC
D	T	H	L	Y	S	L	V	G	Q	A	L
GAT	ACT	CAT	TTG	TAC	AGT	CTT	GTA	GGT	CAG	GCC	TTG
F	G	D	G	A	A	A	V	I	L	G	A
TTC	GGA	GAC	GGA	GCT	GCA	GCA	GTC	ATC	CTC	GGA	GCA
D	P	L	P	E	E	K	P	M	F	E	L
GAC	CCC	CTT	CCC	GAA	GAG	AAG	CCC	ATG	TTT	GAA	CTT
V	S	A	A	Q	T	I	L	P	D	S	E
GTN	TCT	GCA	GCT	CAG	ACC	ATC	TTG	CCA	GAC	AGT	GAA
G	A	I	D	G	H	L	S	E	V	G	L
GGC	GCC	ATC	GAC	GGT	CAT	CTT	AGT	GAA	GTT	GGT	CTC
T	F	H	L	L	K	D	V	P	G	L	I
ACA	TTC	CAT	TTG	CTT	AAG	GAC	GTT	CCC	GGG	CTG	ATC
S	K	N	I	E	K	G	L	V	E	A	F
TCC	AAG	AAC	ATT	GAG	AAG	GGT	CTA	GTC	GAG	GCA	TTC
K	P	I	G	I	E	D	G	T			
AAG	CCT	ATC	GGT	ATC	GAA	GAC	GGA	ACT	CA		

Fig. 5B

SEQ ID NO: 5
SEQ ID NO: 6

```
P   E   A   V   K   D   W   R   E   I   V   T  
CCC GAG GCA GTG AAG GAY TGG CGT GAG ATT GTG ACT  
  
Y   F   S   Y   P   V   S   A   R   D   Y   S  
TAC TTC TCA TAC CCG GTC TCA GCC AGG GAC TAC TCA  
  
R   W   P   D   K   P   E   A   W   K   E   V  
CGC TGG CCG GAC AAG CCT GAG GCC TGG AAG GAG GTG  
  
T   K   R   Y   S   D   T   L   M   G   L   A  
ACC AAG CGT TAC AGC GAC ACG CTG ATG GGT CTG GCA  
  
C   K   L   X   E   V   L   S   E   A   M   G  
TGT AAG CTT STA GAG GTC TTA TCT GAA GCG ATG GGA  
  
L   E   K   E   A   L   T   K   A   C   V   D  
CTA GAG AAG GAG GCT CTG ACT AAG GCC TGT GTT GAC  
  
M   D   Q   K   V   V   V   N   Y   Y   P   K  
ATG GAC CAG AAA GTT GTT GTC AAC TAC TAC CCC AAG  
  
C   P   E   P   D   L   T   L   G   L   K   R  
TGT CCT GAG CCT GAT CTA ACT TTG GGA CTC AAG AGG  
  
H   T   D   P   G   T   I   T   L   L   L   Q  
CAT ACC GAC CCC GGG ACG ATC ACC TTG CTT CTC CAG  
  
D   Q   V   G   G   L   Q   A   T   R   D   D  
GAC CAA GTT GGC GGG CTT CAG GCC ACT AGA GAT GAT  
  
G   K  
GGT AAG AC
```

Fig. 5C

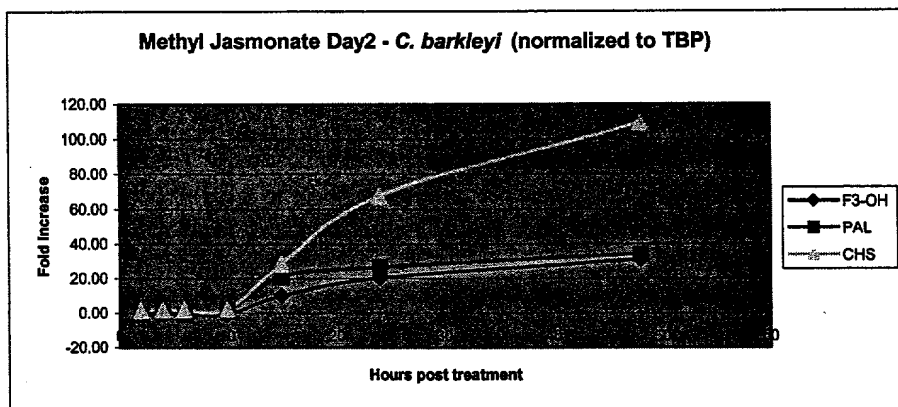


FIG. 6A

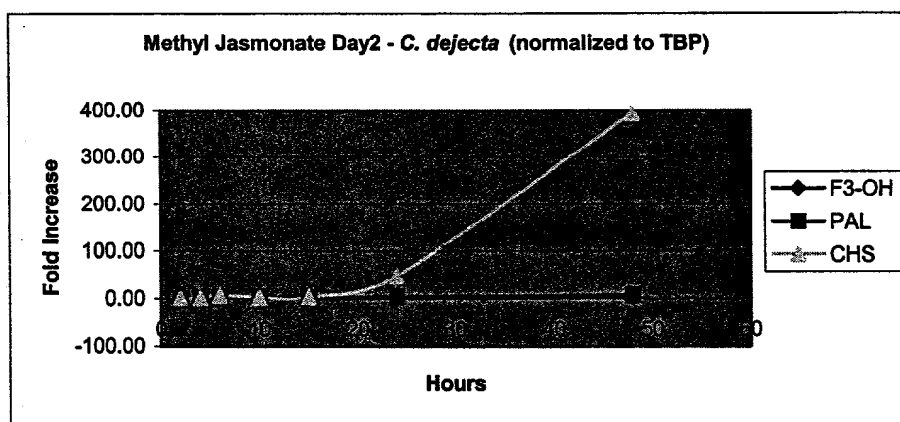


FIG. 6B

20131016 16:24:55001

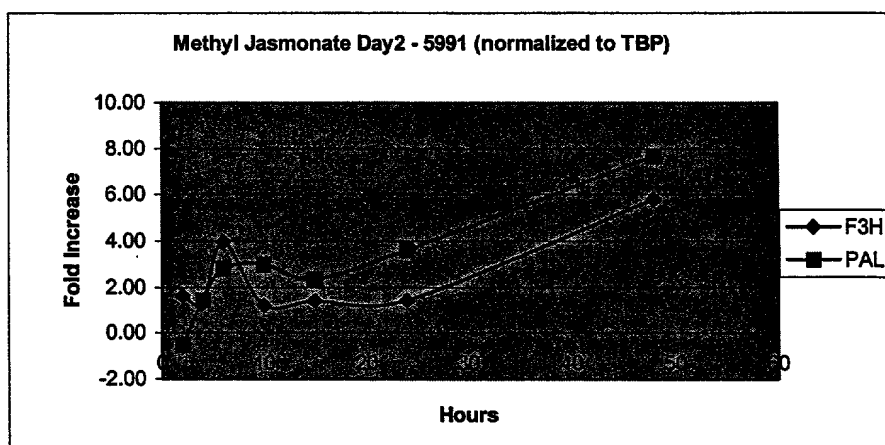


FIG. 6C

Oligonucleotides used for SYBR Green assays.

TBP-5'	GARTAYAAYCCVAAGCGTTTTGC	SEQ ID NO: 7
TBP-3'	GGRTAKATGTTYTCRAAGGCRG	SEQ ID NO: 8
CHS-5'	ATGATGTACCARCARGGGTGCTTYGC	SEQ ID NO: 9
CHS-3'	AGCCCGGGAACGTCCTTAAGC	SEQ ID NO: 10
PAL-5'	G TSAACGACAACCKTTGATCGATG	SEQ ID NO: 11
PAL-3'	ACTTGGCTCACSGTGTTCTTSAC	SEQ ID NO: 12
F3-OH-5'	GAAGGAGGTGACCAAGCGTTACAG	SEQ ID NO: 13
F3-OH-3'	TGGCCTGAAGCCCGCCAAC TTGGTC	SEQ ID NO: 14

FIG. 7

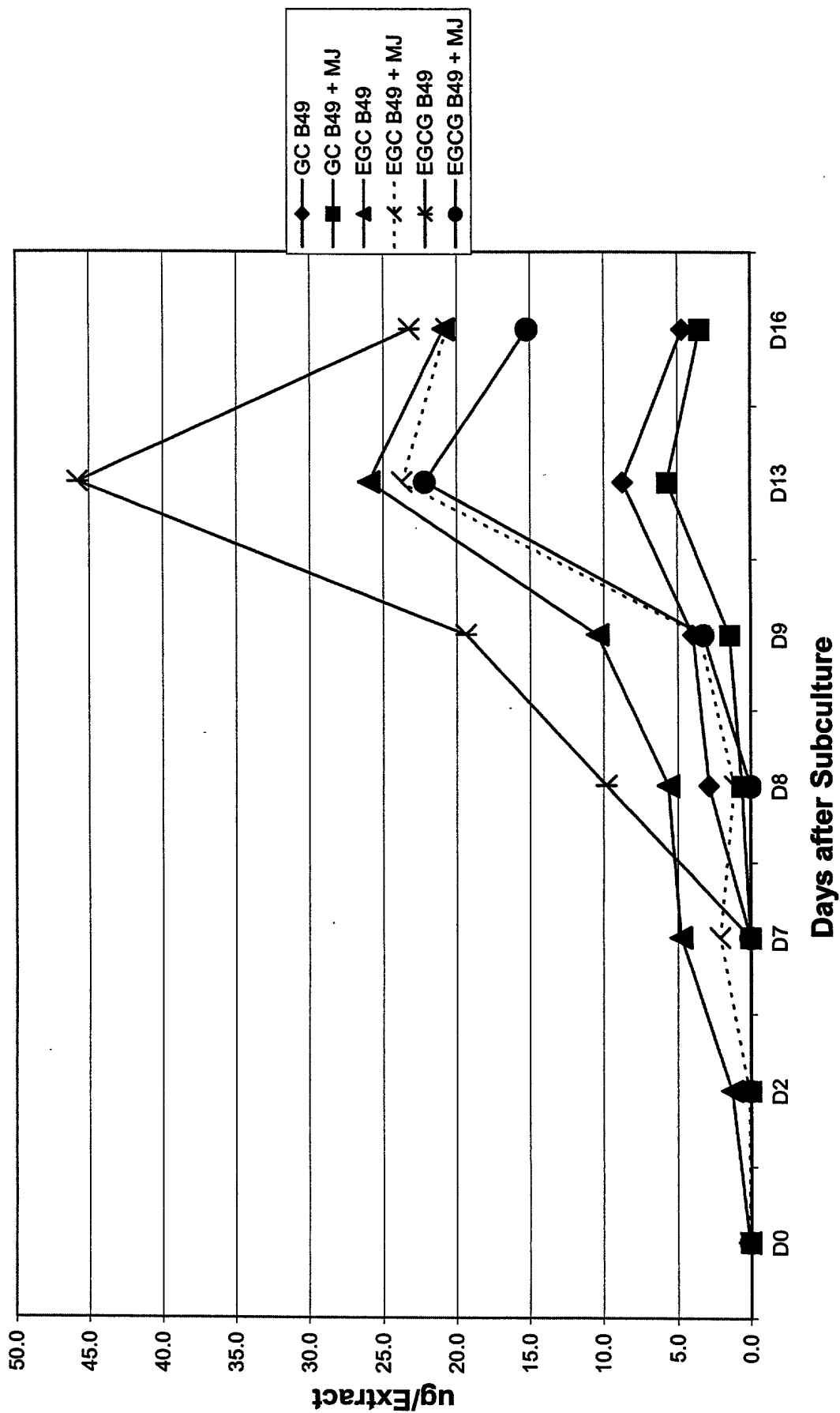
Catechin Accumulation in *Sempervivum tectorum*

FIG. 8

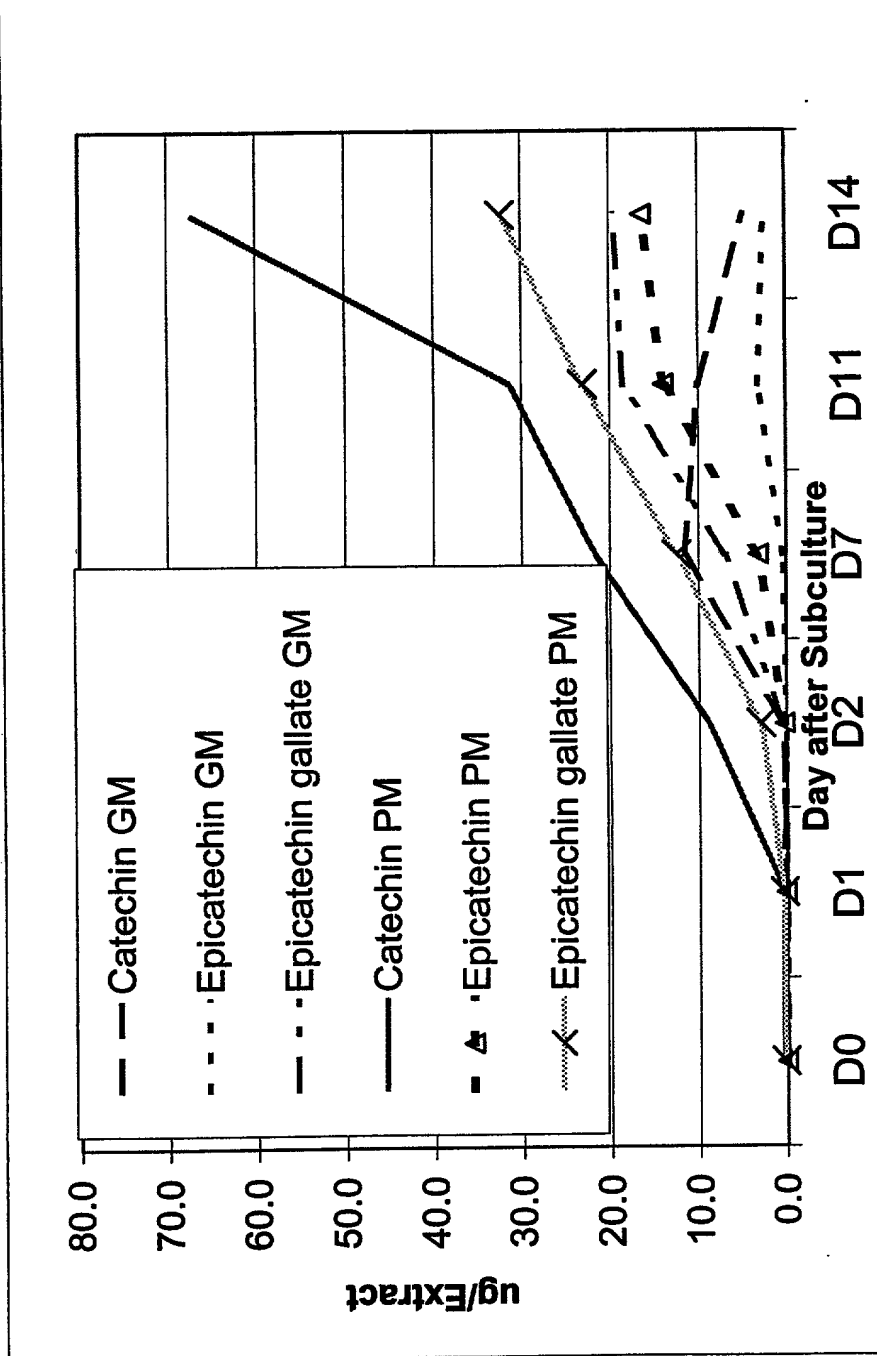


FIG. 9

Part of an AFLP Gel using a Single Primer Pair

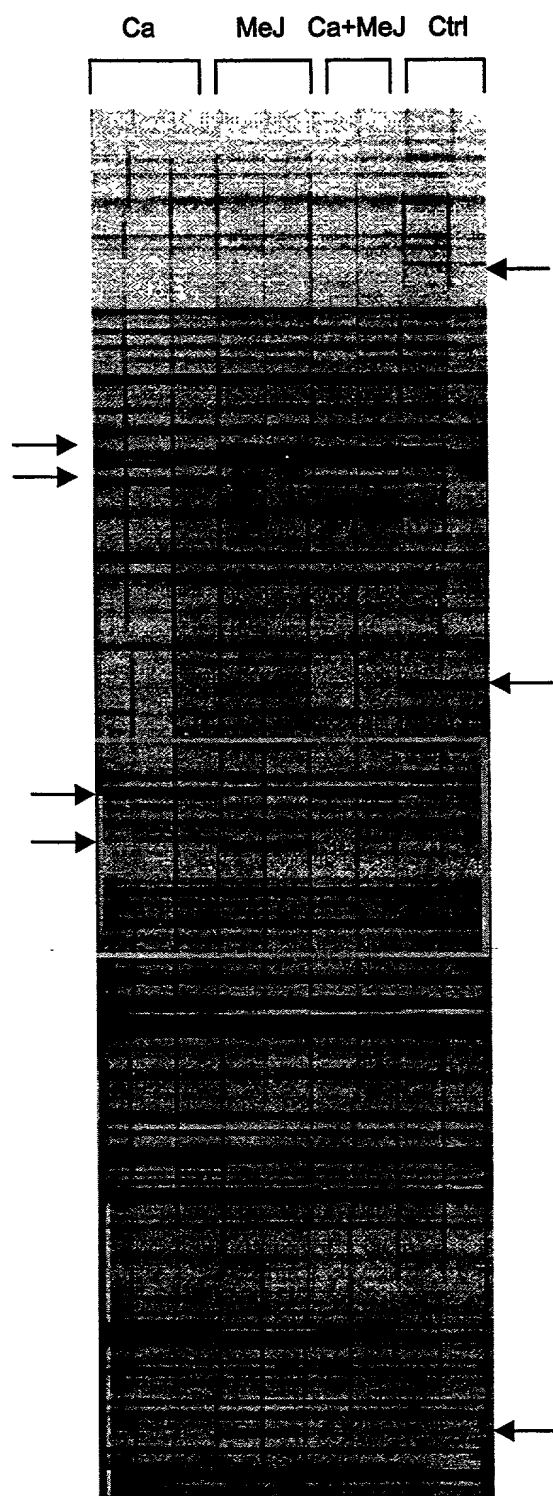


FIG. 10

[illegible]

	1980	1979	1978	1977	1976	1975	1974	1973	1972	1971	1970	1969	1968	1967	1966	1965	1964	1963	1962	1961	1960	1959	1958	1957	1956	1955	1954	1953	1952	1951	1950	1949	1948	1947	1946	1945	1944	1943	1942	1941	1940	1939	1938	1937	1936	1935	1934	1933	1932	1931	1930	1929	1928	1927	1926	1925	1924	1923	1922	1921	1920	1919	1918	1917	1916	1915	1914	1913	1912	1911	1910	1909	1908	1907	1906	1905	1904	1903	1902	1901	1900	1899	1898	1897	1896	1895	1894	1893	1892	1891	1890	1889	1888	1887	1886	1885	1884	1883	1882	1881	1880	1879	1878	1877	1876	1875	1874	1873	1872	1871	1870	1869	1868	1867	1866	1865	1864	1863	1862	1861	1860	1859	1858	1857	1856	1855	1854	1853	1852	1851	1850	1849	1848	1847	1846	1845	1844	1843	1842	1841	1840	1839	1838	1837	1836	1835	1834	1833	1832	1831	1830	1829	1828	1827	1826	1825	1824	1823	1822	1821	1820	1819	1818	1817	1816	1815	1814	1813	1812	1811	1810	1809	1808	1807	1806	1805	1804	1803	1802	1801	1800	1799	1798	1797	1796	1795	1794	1793	1792	1791	1790	1789	1788	1787	1786	1785	1784	1783	1782	1781	1780	1779	1778	1777	1776	1775	1774	1773	1772	1771	1770	1769	1768	1767	1766	1765	1764	1763	1762	1761	1760	1759	1758	1757	1756	1755	1754	1753	1752	1751	1750	1749	1748	1747	1746	1745	1744	1743	1742	1741	1740	1739	1738	1737	1736	1735	1734	1733	1732	1731	1730	1729	1728	1727	1726	1725	1724	1723	1722	1721	1720	1719	1718	1717	1716	1715	1714	1713	1712	1711	1710	1709	1708	1707	1706	1705	1704	1703	1702	1701	1700	1699	1698	1697	1696	1695	1694	1693	1692	1691	1690	1689	1688	1687	1686	1685	1684	1683	1682	1681	1680	1679	1678	1677	1676	1675	1674	1673	1672	1671	1670	1669	1668	1667	1666	1665	1664	1663	1662	1661	1660	1659	1658	1657	1656	1655	1654	1653	1652	1651	1650	1649	1648	1647	1646	1645	1644	1643	1642	1641	1640	1639	1638	1637	1636	1635	1634	1633	1632	1631	1630	1629	1628	1627	1626	1625	1624	1623	1622	1621	1620	1619	1618	1617	1616	1615	1614	1613	1612	1611	1610	1609	1608	1607	1606	1605	1604	1603	1602	1601	1600	1599	1598	1597	1596	1595	1594	1593	1592	1591	1590	1589	1588	1587	1586	1585	1584	1583	1582	1581	1580	1579	1578	1577	1576	1575	1574	1573	1572	1571	1570	1569	1568	1567	1566	1565	1564	1563	1562	1561	1560	1559	1558	1557	1556	1555	1554	1553	1552	1551	1550	1549	1548	1547	1546	1545	1544	1543	1542	1541	1540	1539	1538	1537	1536	1535	1534	1533	1532	1531	1530	1529	1528	1
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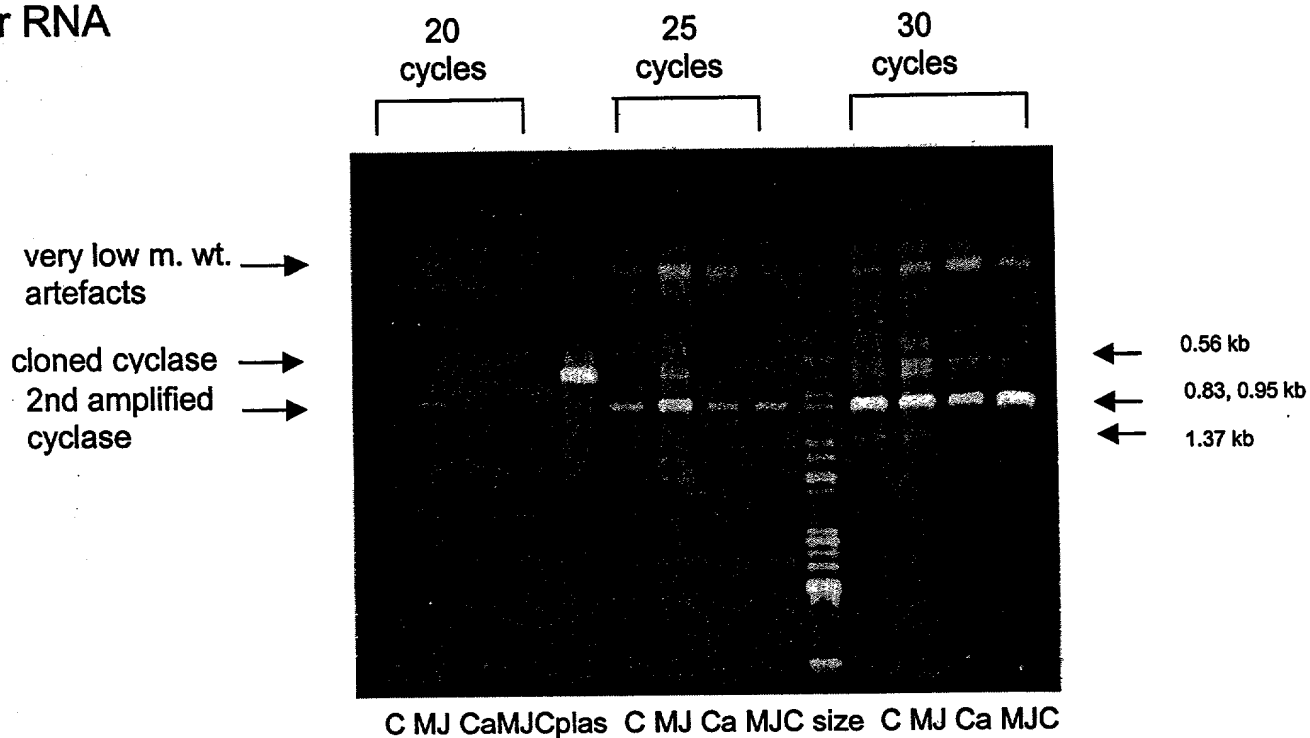
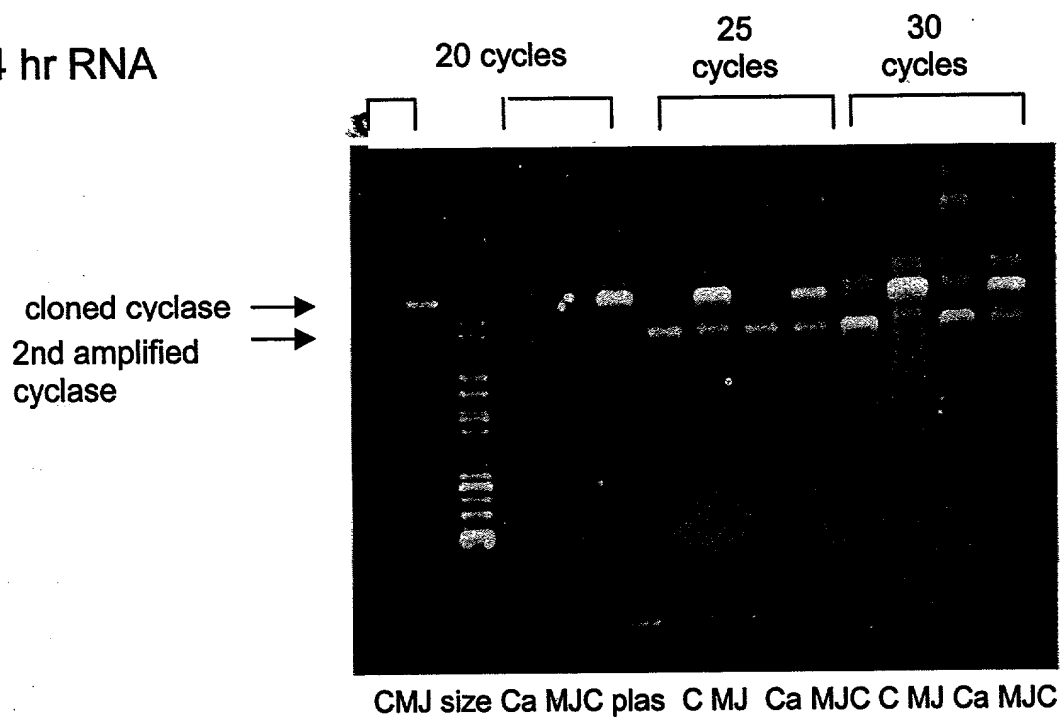


FIG. 11A



KEY: C = untreated control, MJ = methyl jasmonate, Ca = *Candida*, MJC = methyl jasmonate + *Candida*, size = size markers, plas = control using plasmid containing the cloned gene

FIG. 11B

Primer pair: 1 2 1 2 1 2

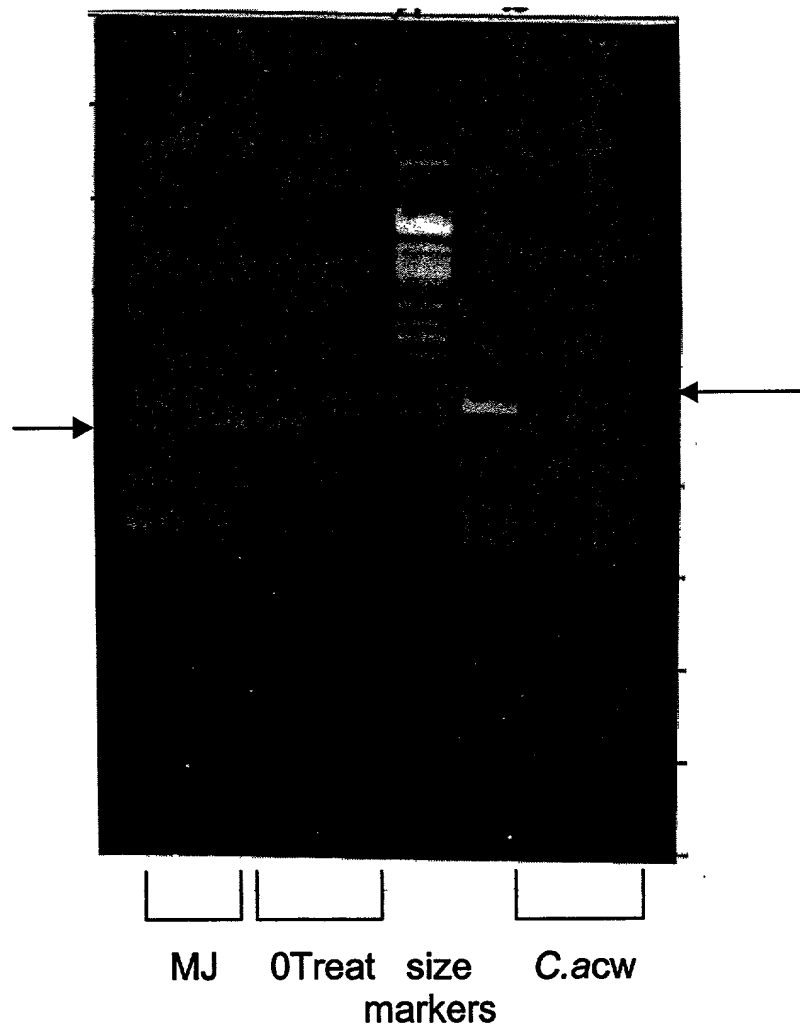
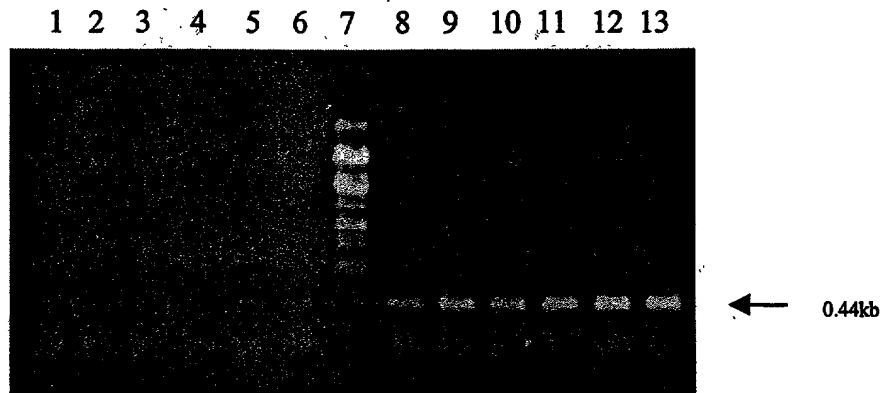


FIG. 12



1	Control (untreated)	15 cycles
2	24 hr post treatment	"
3	48 hr post treatment	"
4	Control (untreated)	20 cycles
5	24 hr post treatment	"
6	48 hr post treatment	"
7	λ phage size ladder	
8	Control (untreated)	25 cycles
9	24 hr post treatment	"
10	48 hr post treatment	"
11	Control (untreated)	30 cycles
12	24 hr post treatment	"
13	48 hr post treatment	"

FIG. 13